

President ----- W3VVS
Vice President - W3IRS

THE TVI RETREAT
sponsored by
THE PHIL-MONT MOBILE
RADIO CLUB

Secretary ----- W3QQH
Treasurer ----- W3DQG

SEN 7:30 to 8:30 AM weekdays - "10 on 10" Sunday 10 AM - Blarney sessions anytime
All on 29,493.2 kc

VOL 3

SEPTEMBER 1954

NO 9

NEXT MEETING - CASSIDY SCHOOL, between 65th & 66th on Lansdowne, West Phila.

DATE - September 13th 1954 - Delayed one week due to holiday.

REFRESHMENTS - Prizes donated by Almo, Resco and the club.

PROGRAM - AUCTION and the biggest and the best we have ever had. This sale run by Hy Hecht will feature for sale all the gear you have ever wanted at rock bottom prices. Here is a partial list - A scope, frequency std, microphones, earphones, connectors & many others. Note carefully these rules.

1. This is an absolute auction, the gear goes for the highest bid.
2. The club collects 10% of every sale as a service charge.
3. The owner may buy back his own gear if he doesn't like the price it is going for but must pay the service charge.
4. Service charge is 5% over \$50.
5. All gear being sold must be checked in between 7:30 & 8:00 pm or it will not be placed on sale. This gives the Sales committee time to process the merchandise.
6. Bring gear to be sold to the basement not the meeting room.

Bring your hoard of gold out to the biggest auction ever.

VISITORS AT THE LAST MEETING - W3IQF, W5YWF, W9SNZ, W3VAS, Hal Pickering.

NEW MEMBERS REPORTED - Joe Copestakes from Langhorne Pa.

THE LATEST SCOOP - The gang is busy choosing new club frequencies - the line up looks like this. Channel 1 & 2 as they stand, there will be one on 11m & one on 6m. The 6m freq. is 50.7. The associate editor wrote up a wheeze on 6m you should see - note the back page. We will print all the frequencies as soon as they are definite. Xtals will be on sale by the club. In all the discussion 2m was never mentioned for unknown reasons. W3NIP, Chuck is going on 420 television - this is not official since he has not reported same to Peg. --- W3 WNC had 22 at mid month and a very fine time Hy. The club voted to purchase a power supply for the trailer with a new committee formed to rebuild the trailer rig. Many of the parts are being donated by club members. Your assist will be appreciated. The thinking is going toward 4 band operation with a common modulator. W3KUB bummed a ride to ME with W3CNO. Don comes farthest of all to meetings we believe. Peruse carefully the ensuing months of QST. ED sent Ellen WLYM a few photos which will no doubt appear. W3VSU has a novel way of calling his wife home. He goes on the air and asks for 'Agnes' - note - all TV sets in the neighborhood receive him in fine style. The constitution passed 51 to 7. Many thanks are due W3ADF & W3QQH for their fine work on preparing the works. It is interesting to note this is the first rewrite since the first one was drawn up by the original charter members in 1949. It is also not interesting to note the failure of many members to vote. You can redeem yourselves by getting out to the

Elections in December. --- We are pleased to announce W3OWK's better half has her ticket WN3ZLE - Dot the first XYL in the club. Al has a prodigious family - his daughter learned to swim in two lessons and won a prize for same. It is good to see Frenchie moving around at a little faster pace. W3VVS is heading up the rig construction for the trailer. --- Some Swap Sheet skullduggery has been rumored. Seems like some characters who are selling gear and receive contacts through the Swap Sheet are not paying the club for the service. The rules state the seller must pay 10% to the club for any sales resulting from club advertising. W3EXY is not responsible to see that you ante up - his job is only to coordinate the activity. Paying the service charge is the sellers responsibility. The maximum service charge is \$10 regardless of the amount of sale. A policy regarding commercial advertising will be announced later. --- W3FPP is off to Denver again. W3SGR is working on a 3 day a week schedule to get back his health. Seems as tho he gets home to work long enuf to stow his fishing ladder with vittles and he is off again. We missed his yearly mid month meeting at the shore but couldn't be helped. Maybe next year. W3VCY is reported to be sleeping on a torpedo for a couple of weeks - Navy boy. --- Tickets go on sale for the Annual Banquet in Sept. or Oct. Not yet gals - we will tell you when to smash the piggy bank. Nose charge still stands at \$3.00 for the feast - the club will underwrite part of it. Don't forget to save up some Knockers for your buddy. Rules are Knockers are given anonymously. So dig up your best junk for your buddy. ED has some peachy ones stashed away. --- W3QQH reports the walkie talkie building program is along the lines of the writeup in Feb. 1953 CQ. Cost of new parts will run about \$20. --- Since ED feels it important that credit be given those who expend extra effort in behalf of the club - many thanks are due W3QZ0 for the fine job he did for the club heading up the Field Day activity. We have always had plenty of followers in the club but no leaders in that activity. Every year someone would ask why PMRC was not in FD, and the same old answer would prevail - no chairman. This year we were fortunate in having Bob volunteer for the job and you can rest assured it was a job well done. He had lots of help for which many thanks are due but don't forget it wouldn't have come about if he hadn't organized the program. PS. Bob lost 8 lbs over nite - a new clue to reducing gals - go out for Field Day. --- A transmitter hunt is scheduled for Sept. 19th. W3QQH is due to hide it. The hunt will start as usual from Roxborough Reservoir. An announcement will be made at the meeting. --- W3UXP and Tina had a bouncing 6 lb baby girl. W3PXY is an aunt. W3WNC has heard W3JGB, W3IW, W3NIP, and W3QV in Atlantic City coming in in fine style. W3LJ now has a new QTH and is about to unpack a rig which promises to run a close second to his mobile. The gang wants a title hung on all circuits in the blurb Al. W3HYU promised to give out with the modulator to the last circuit so hold still you guys. ED knows what you're thinking about his modulation Al but it 'taint so - modulation won't help a rig that doesn't have an operator. W3LCT worked lots of the gang on Channel 1 from New Hampshire - W3IW, W3QV, W3EM, W3GIF, W3QQH, W3DSG and about 100 4's, 9's, 8's, and 0's. W3CTT heard what looks like half of the club from Boyertown - too numerous to mention here. W3QCV worked W3HQJ on 40 Aug. 2. W3HQJ was in Maine. W3KHF worked him on Channel 1. W3IHS had a fire in his detached garage - his 1954 Chev was well baked and he lost 90% of his radio gear - oh happy day says he - he fortunately had insurance on the garage and car. --- The Burlington County Radio Club (BCRC) N.J. has a new charter. Emphasis is being placed on facilities at the headquarters. The recent forest fires in Burlington Co. indicated a need for a more adequate communication system, hence a renewed interest in portable gear for mobile and portable operation. --- A reminder that the SJRA's Hamfest will be held on Sunday Sept. 12th at National Park, N.J. K2AA will be on the air at 11 AM on 3895, 29,000 and 145.4. Rig hunts will start at noon. (W2WKI reporting). --- W6QIL stopped to see W3IW - Ray and Bob kept 112 Megs busy during the war in Norfolk, Va. --- W3FFF reports again from Wilmington Del. Roy says not to print verbatim so we won't but will wonder why since k writing makes easy reading -- The Blue Hen Net hit a low of activity during the summer months Freq 29,520. The last QD exercise June 13th was the last real activity. Cold weather is hoped to bring them out again. --- W3MZQ the NC is out of hamming

altogether. Doc sold his gear lock, stock and barrel. He is reported to be going in for H1-F1 in a big way, seems he likes the long hair stuff. No one can figure why he got out of ham radio. W3QWQ, W3PCZ and W3FF are on 29.5 to and from work. They use fast break in and only the legal amount of call letters during these sessions. W3ZN drops down that way every so often when he is doing some job for the 'flickers' (Movies). Roy invites newcomers to say hello when in the area. They hear the PMRC is in good shape in Wilmington. ---ED's mail has been stacking high lately. He received a very nice blurb from the MARITIME MOBILE AMATEUR RADIO CLUB including a complete roster of members with call, ships etc. It will be placed in the hands of one of the active Channel 1 members to see that all fellers calling in to Phila on 29,493 receive prompt response and recognition. The band is not too favorable now but will be soon we hope. W3OB John is the club secretary. Tis kind of mysterious how the club headquarters landed in Pittsburgh, Pa. Maybe there is an inland route Columbus didn't find. Or was it Dan'l Boone? A note of interest to PMRC who operate on boats. We quote from John's blurb to his club members "One precaution, there is no such thing as 'Marine Mobile'. You are either Maritime Mobile or Mobile depending on whether you are outside the 3 mile limit or inside. The rules are very clear in this respect. Also you are mobile even though tied up at a dock. Operation on the Great Lakes is Mobile." The MMARC publishes propagation studies with their blurb. --- The DVRC reports license plate activity again. --- Andy W3NL sent in a copy of the Maryland Mobile Radio Club "Autocall". Very cleverly written Andy - wish we had space-there are many interesting bits to relate. We will try to get them in later when more room is available. Meantime it will be on the clubroom bulletin board. The Autocall represents a tremendous amount of work - we don't know how they can do it. Their emergency call is (EISH) 1-2-3-4. Test Call is EISII 1.2.3.2.2. Frequency 29640. --- W2JAV is still wondering who the W3 is who contacted him the other nite on 2m. Phil was using 400 watts. The W3 had a Gon-set Communicator. --- If it weren't for the PMRC 10m would be in the same shape as 2m. It will be interesting to see what happens on 6m mobile. A test is in order to see the relative merits of 10, 6 and 2 mobile-wise. --- For those of you who missed Mr. last month one of the subjects brought up was Channel 4 (6 meters). As near as I can figure out one of the main reasons for this other frequency is because some of the gang are a bit worried over what will happen to channel 1 when the band opens (we hope). From past experience ten meters is very seldom real crowded on the high frequency end. More of the boys hang around the low end. Of course, there will be some qrm that's true and I suppose if we want to have a intersom channel that is relatively free from qrm I guess 6 meters would be better than 10. It was proposed (by some of the gang) that we shift to FM on our channel 4. This suggestion while probably not favored by all of the gang is worthy of investigation. The main problem of a shift to FM is of course the receiver. The transmitter wouldn't present too much of a problem. Our Technical Editor W3HYU has been asked to see if it would be possible to develop an adaptor (or sumpin) for the average communication receiver that would do the trick. Al don't think much of FM but he's willing to give it a whirl, hi. - Inasmuch as qrm appears to be the reason for channel 4 looks like FM is the ideal answer. Don't take our word for it but lets quote from C D Technical Bulletin TB-1 12/53. "Advantages of FM over AM for Civil Defense Communications in the Frequency Bands 50 Megacycles Per Second and Up." This bulletin discusses the reasons why frequency modulation (FM) is considered superior to amplitude modulation (AM) for communications in the higher frequency portion of the radio spectrum (50 mc and up), particularly with respect to mobile operation. These reasons are evaluated in the light of extensive experience in the use of FM in the numerous mobile services within the United States. Also considered are the results of a study made by a special committee of the Radio Technical Commission for Marine Services (RTCM), covering the basic characteristics of both FM and Am for VHF marine communications. - Results of Radio Technical Commission for Marine Services (RTCM) Study. (a) FM provides greater coverage for reception of usable signals than AM. The fact that reception of unusable signals is not possible with FM is an advantage because this

characteristic minimizes interference to usable signals. (b) FM, because of its "capture effect," has extensive possibilities for re-use of the same frequency at adjacent locations. This effect prevents interference within the service area of one station from transmissions of another station outside of this area. It also insures clean, reliable communications between two stations at close range without interference from stations at greater distances. On the other hand, with AM there is no way of rejecting interfering signals on the same frequency. (c) FM has a decided advantage over AM in overcoming interference from adjacent channel operations (cross-talk) and from intermodulation components. FM will provide reception of a desired signal which is only slightly stronger than an undesired signal, whereas AM requires a much higher ratio between desired and undesired signals. (d) FM equipment is no more expensive than AM equipment. Present day FM sets are simple and economical to manufacture, to install, to operate, and to maintain. They have proven extremely reliable. With the exception of those cases in which AM equipment has already been installed, the similar costs between AM and FM equipment completely favor the use of FM equipment. AM equipment built for the same job as present day FM equipment could not possibly result in any savings to the user. -Quantitative Comparisons of FM and AM Taken From the RTCM Report. Two examples taken from the RTCM report illustrate the superiority of FM over AM. Example 1: This example illustrates the greater useful area of coverage of an FM station as compared with an AM station of the same power output. Both stations were operated independently but under the same conditions of propagation. Although these ranges would vary with conditions of propagation and power output, the comparison would still hold. For FM: Excellent reception over radius of 22 miles from station. Fair to poor reception from 30 to 32 miles from station. No reception and no interference received beyond 32 miles. For AM: Excellent reception over radius of 7 miles from station. Good reception from 7 to 18 miles from station. Fair to poor reception from 18 to 27 miles from station. Reception of signals as interference from 27 miles to as far out as receiver is capable of detecting signals. Example 2: This example illustrates the relative freedom of interference between two FM stations operating simultaneously on the same frequency as compared to two AM stations on the same frequency. - Assuming 2 fixed stations, spaced 15 miles apart, of equal power, operating simultaneously on the same frequency, and using AM, the area of coverage of each such station would be 1.3 square miles. Using the same stations, power, frequency and spacing, but using FM, the area of coverage would be 43 square miles for each station. Increasing the power of one station over the other in the ratio of 10 to 1, all other conditions the same, the area of coverage would be 4 square miles and .4 square miles for AM as compared to 101 square miles and 10 square miles using FM. Ignition Noise - Rejection of ignition noise by FM equipment is another significant factor of superiority over AM, especially in mobile service. As a result, the modification of the vehicle in which the FM equipment is installed is held to a minimum, and interference from the ambient ignition noise of nearby vehicles is greatly lessened. That's what those who know say about FM and if Al can come up with something, well, who knows mebbe FM is the answer. --73-- RMR.

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 Pair of 2 mfd. 1500 v. filter condensers \$8 (W2ZI)
 General Electric mobile transmitter and receiver, no control head or
 cables, all tubes included \$50 (W2ZI)
 Pioneer ~~GEN~~ Gen-E-Motor 6 volts in, 600 volts at 150 ma. out \$15 (W2ZI)
 Mobile transmitter complete with dynamotor and tubes \$30 (W3CDY)
 Gonset Super-Six Converter \$42.50 (W3CTT)

Wanted:

ELMAC rcvr (W3CTT)
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 TS-1/ARRI portable test oscillator, commonly called the "Gold Plated Special" in
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Seller must remit 10% of the sale price to club treasurer- W3DSG

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